

No 0093

# Organization of African Unity Organisation de l'Unité Africaine

OAU/STRC - SECRETARIAT  
P.M.B. 2359  
LAGOS, NIGERIA.



CSTR/OUA - SECRETARIAT  
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LAGOS, NIGERIA.

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SEMI-ARID FOOD GRAIN RESEARCH AND DEVELOPMENT (SAFGRAD)

OAU/STRC JOINT PROJECT N° 31.

633.1  
STR

SECOND WORKSHOP ON SORGHUM AND MILLET ORGANIZED BY  
THE SCIENTIFIC, TECHNICAL AND RESEARCH COMMISSION  
OF THE ORGANIZATION OF AFRICAN UNITY (OAU/STRC)  
UNDER JP 31 SAFGRAD.

16-20 MARCH 1981, GABORONE, BOTSWANA.

REPORT AND RECOMMENDATIONS.

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No 0093

# AGENDA

1st Day, Monday 16 March 1981.

## OPENING CEREMONY.

- 08h00 - Registration
- 08h45 - Arrival of the Honourable W. MESWELE  
Minister of Agriculture of Botswana.
- 09h00 - Introductory Address by Dr. Akadiri-Soumaïla.  
International Coordinator of OAU/STRC JP 31  
SAFGRAD.
- 09h15 - Address by Mr. A.H.A. RAZIK, Assistant Executive  
Secretary and Officer-in-Charge of OAU/STRC.
- 09h30 - Opening Address by the Honourable W. MESWELE,  
Minister of Agriculture of Botswana.
- 10h00 - Coffee Break
- 10h15 - Election of Officers (Chairman, Vice-Chairman;  
Rapporteur - General and Co-Rapporteur).
- 10h30 - Adoption of the Agenda.
- SESSION I PROGRESS OF RESEARCH ON SORGHUM AND MILLET IN MEMBER STATES.

Chairman : Dr MENGESHA MELAK M.

Rapporteur : Mr ADOMOU MOUSTAPHA.

- 10h30-10h45 - National Research Programmes on Sorghum and Millet - Benin.
- 10h45-11h00 " " " " " " " -Somalia
- 11h00-11h15 " " " " " " " -Ivory-Coast
- 11h15-11h30 " " " " " " " -Ethiopia
- 11h30-11h45 " " " " " " " -Togo
- 11h45-12h00 " " " " " " " -Ghana.
- 12h00-12h30 Discussion.

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SESSION II

Chairman : Prof ADEGBOYE

Contd. Session I

Rapporteur: Mr. SITAPHA DIATTA.

14h00-14h15	Continuation of National Research Programmes on Sorghum & Millet-Senegal								
14h15-14h30	"	"	"	"	"	"	"	"	-Gambia
14h30-14h45	"	"	"	"	"	"	"	"	-Mali
14h45-15h00	"	"	"	"	"	"	"	"	-Sudan
15h00-15h15	"	"	"	"	"	"	"	"	Guinea-Bissao.
15h15-15h30	"	"	"	"	"	"	"	"	Cameroon
15h30-16h00	Discussion								
16h00-16h15	Coffee Break								
16h15-16h30	Continuation of National Research Programmes on Sorghum & Millet-Up.Volta.								
16h30-16h45	"	"	"	"	"	"	"	"	-Guinea
16h45-17h00	"	"	"	"	"	"	"	"	-Botswana
17h00-17h15	"	"	"	"	"	"	"	"	-Nigeria
17h15-17h30	"	"	"	"	"	"	"	"	Central African Republic.
17h30-17h45	"	"	"	"	"	"	"	"	-Niger
17h45-18h00	"	"	"	"	"	"	"	"	-Tanzania Kenya.
18h00-18h30	Discussion.								

2nd Day, Tuesday 17 March 1981.

SESSION III

Chairman : Dr. OBILANA

Rapporteur : Dr. MacFARLANE.

08h00-12h00 - Impact of Host Plant Resistance in an Integrated Pest  
Management Programme.

A) Sorghum : Speaker : Dr. ADESUYUN

Discussant : Dr. RAO.

General discussion

Coffee Break.

B1) Millet : Speaker : Dr. NWANZE

B2) Sorghum & Millet Striga (Dr. RAMAIAH) by Mr. ZANGRE.

Discussant : Dr. SINGH

General Discussion

Lunch.

.../...

SESSION IV

Chairman : Dr. EGHAREVBA

Rapporteur : Mr. SEDOGO

14h00-18h00 - Sorghum and Millet Breeding for Disease Resistance.

A1) Sorghum : Speaker : Dr. Gebrekidan

A2) Sorghum : Speaker : Dr. Pattanayak

Discussant : Dr. Nour Abdel Latif

General Discussion

Coffee Break.

B1) Millet : Speaker : Mr. Pako Sereme

B2) Millet : Speaker : Dr. Nwosike

Discussant : Mrs. N'Doye.

General Discussion.

3rd Day, Wednesday 18 March 1981.

SESSION V

Chairman : Dr. Gebrekidan

Rapporteur : Dr. Singh.

08h00-12h00 - Sorghum and Millet Breeding for Drought Resistance.

A1) Sorghum : Speaker : Dr. Jerry Eastine

A2) Sorghum : Speaker : Dr. Obilana

Discussant : Mr. Mazhani

General Discussion

Coffee Break.

Collection Methods for Local Varieties and Cultivars(Germ.-Plasm.)

Speaker : Dr. Mengesha.

SESSION VI Socio-Economic aspects of Sorghum and Millet Production in Nigeria.

Speaker : Prof. Adegboye.

14h30-18h00 - Elaboration of the 1981-1985 Regional Trials Programme

for Sorghum and Millet.

Chairman : Dr. RAO

Rapporteur : Dr. Abdel Latif Nour.

Constitution of Two Groups : a) Sorghum b) Millet.

a) Sorghum : Chairman : Dr. Rao

Rapporteur: Dr. Abdel Latif Nour.

b) Millet : Chairman : Dr. N'Wosike

Rapporteur : Dr. Singh.

.../...

4th Day, Thursday 19 March 1981.

SESSION VII.

08h00-12h00 - Visit to the Research Station.

14h00-16h00 - Continuation of the Proceedings of the Two Groups.

16h00-18h00 - Drafting Committee.

5th Day, Friday 20 March 1981.

SESSION VIII

08h00-10h00 - Presentation of Final Report.

10h00-11h00 - Closure.

Afternoon : Departure of participants.

LIST OF PARTICIPANTS

LISTE DES PARTICIPANTS.

MEMBER COUNTRIES/PAYS MEMBRES

PEOPLE'S REPUBLIC OF BENIN/  
REPUBLIQUE POPULAIRE DU BENIN.

Mr. ADOUMOU Moustapha  
Ingénieur Agronome  
Département de la Recherche Agronomique  
Station de Recherche et d'Expérimentation  
sur les Cultures Vivrières d'INA.  
B.P. 3  
N'Dali - République Populaire du Bénin.

BOTSWANA.

Dr. MOLEFE T.F.  
Senior Research Plant Pathologist  
Dept. of Agricultural Research  
Private Bag 0033,  
Gaborone, Botswana.

Mr. GOLLIFER David  
Dept. of Agricultural Research  
Private Bag 0033  
Gaborone, Botswana.

Mrs. TAFA Batatu E.  
Ministry of Agriculture  
Private Bag 0033  
Gaborone, Botswana.

Mr. MMOLAWA Onesimus Baathodi  
Agricultural Research Station  
Private Bag 0033  
Gaborone, Botswana.

Mr. MAZHANI Louis  
Agricultural Research Station  
Private Bag 0033  
Gaborone, Botswana.

CAMEROON/CAMEROUN.

Mr. FOBASSO  
Ingénieur Agronome RPAA  
Institut de la Recherche Agronomique  
B.P. 33  
Maroua, Cameroun.

Mr. MAHAMAT Chégador  
Délégation Départementale de l'Agriculture  
B.P. 12.  
Mokolo, Cameroun.

ETHIOPIA/ETHIOPIE.

Dr. Brhane GEBREKIDAN  
Project Leader  
Ethiopian Sorghum Improvement Project  
Addis Ababa University/Institute of  
Agricultural Research  
P.O. Box 414  
Nazareth, Ethiopia.

GAMBIA/GAMBIE.

Mr. Tom G. SENGHORE  
Agronomist  
The Gambia Department of Agriculture  
SAPU Agricultural Station  
c/o Rural Development Office  
P.O. Box 739  
Banjul, the Gambia.

Mr. Albert Henry COX  
Agronomist  
Ministry of Agriculture  
P.O. Box 739  
Banjul, the Gambia.

GUINEA-BISSAO/GUINEE-BISSAU.

Mr. AKALA BARBOSA Antonio  
Directeur du Centre de Recherche à Contuboe  
Ministère du Développement Rural.  
B.P. 71.  
Département du Riz.  
Bissau - Guinée-Bissau.

MALI.

Mr. MINAMBA Bagayoko  
Ingénieur Agronome  
Recherche Agronomique  
B.P. 438  
Bamako, Mali.

NIGER.

Mr. SOUMANA Mahamadou  
Agent Technique d'Agriculture  
Service Agricole Départemental  
B.P. 379  
Niamey, Niger.

NIGERIA.

Dr. EGHAREVBA Patrick N.  
Cereal Agronomist Leader,  
I.A.R. Cereal Program  
P.M.B. 1044  
Zaria, Nigeria.

Dr. ADESUYUN Adoyinka Adojumo  
Entomology Section, Institute for  
Agricultural Research,  
P.M.B. 1044  
Samaru, Zaria, Nigeria.

.../...



Dr. NWASIKE Christian  
Plant Breeder  
Institute for Agricultural Research  
Ahmadu Bello University  
Zaria, Nigeria.

Dr. OBILANA A. Tunde  
Sorghum Breeder  
Institute for Agricultural Research  
I.A.R., ABU  
P.M.B. 1044  
Samaru, Zaria, Nigeria.

SENEGAL.

Mme N'DOYE Thiam Aminata  
Chercheur en Génétique et amélioration des Plantes  
CNRA  
B.P. 59  
Bambey, Sénégal.

Mr. DIATTA Sitapha  
Ingénieur Agronome  
Ministère du Développement Rural-DGPA  
B.P. 486  
Dakar, Sénégal.

SUDAN/SOUDAN:

Dr. ABDELLATIF M. Nour Abdellatif  
Research Scientist  
Medani Research Station  
Medani, Sudan.

TOGO.

Mr. APEDO-AMAH Ayayi W.  
Ingénieur d'Agriculture  
D.R.A.  
B.P. 341  
Lomé, Togo

UPPER VOLTA/HAUTE-VOLTA.

Mr. ZANGRE G. Roger  
Ingénieur Agronome  
IVRAZ Station de Kamboinsé  
B.P. 1165  
Ouagadougou, Haute-Volta.

Mr. SEDOGO Michel  
Ingénieur Agronome  
IVRAZ Station Agricole de Saria.  
B.P. 633  
Ouagadougou, Haute-Volta.

Mr. KORTEWEG Coris  
Agronomist ACPO SAFGRAD  
c/o American Embassy  
B.P. 35.  
Ouagadougou, Upper Volta.

Mr. KABORE Moussa  
SAFGRA  
B.P. 960  
OUAGADOUGOU, Upper Volta.

ZIMBABWE.

Mr. MUSHONGA Joseph  
Sorghum Breeder  
Dept. of Research and Specialist  
Services  
P.O. Box 8100  
Causeway - Zimbabwe.

ORGANIZATIONS/ORGANISATIONS.

AAASA.

Professor ADEGBOYE Rufus  
University of Ibadan  
Ibadan, Nigeria.

CRDI.

Dr. GALIBA Marcel  
Ingénieur Agronome  
CRDI  
CNRA Bambey  
Senegal.

FAO.

Mr. PINTO Felix  
F.A.O.  
c/o Sorghum & Millet Dev. Project.  
P.O. Box 340  
Machakos, Kenya.

GTZ.

Mr. FREY Eckart Albrecht  
Agronomist  
GTZ-W-GERMANY  
P.O. Box 483  
Tamale, Ghana.

INTSORMIL

Mr. VOLLMAR Glen  
Assistant Director INTSORMIL  
University of Nebraska  
217 Filley Hall  
Lincoln, Nebraska  
USA 68583.

Mr. EASTIN Jerry  
Professor of Agronomy  
205 KCR  
University of Nebraska  
Lincoln NE 68583  
U.S.A.

IRAT

Mr. CHANTEREAU Jacques  
Sorghum Breeder  
IRAT  
CNRA Bambey  
Senegal.

ICRISAT.

Dr. N.G.P. RAO  
Regional Sorghum Breeder  
OAU/STRC JP 31 SAFGRAD  
ICRISAT IAR, ABU  
P.M.B. 1044  
Zaria, Nigeria.

Mr. McFARLANE John  
Entomologist  
ICRISAT/SAFGRAD  
IAR, ABU  
P.M.B. 1044  
Zaria, Nigeria.

Mr. MENGESHA Melak H.  
Leader - Genetic Resources  
ICRISAT Center  
Patancheru P.O.  
Andhra Pradesh  
India 502324.

Mr. NWANZE Kanayo  
Entomologist  
ICRISAT  
B.P. 1165  
Ouagadougou, Upper Volta.

Mr. BOLING Max  
Agronomist  
ICRISAT, I.A.R. ABU  
P.M.B. 1044  
Zaria, Nigeria.

Dr. PATTANAYAK Chandra Mohan  
Team Leader/Sorghum Breeder  
ICRISAT, Upper Volta  
B.P. 1165  
Ouagadougou, Upper Volta.

Mr. SEREME Paco  
Ingénieur Agronome  
ICRISAT/Haute-Volta  
Station de Kamboinsé  
B.P. 1165  
Ouagadougou, Haute-Volta.

Dr. SINGH Bir Bahadur  
Principal Millet Breeder & Coordinator (Regional  
Activities)  
ICRISAT  
B.P. 260.  
Maradi, République du Niger.

Mr. MUKURU Sanwiri Z.  
Sorghum Breeder  
ICRISAT Hyderabad  
ICRISAT Patancheru  
Andhra Pradesh  
502 324 India.

CILSS

Dr. SIDIBE Ousseini  
Directeur Dept. Recherche  
CILSS - Institut du Sahel  
B.P. 1530.  
Bamako République du Mali.

USAID.

Mr. Arlan B. McSWAIN  
SAFGRAD Project Officer  
USAID  
c/o American Embassy  
B.P. 35  
Ouagadougou, Upper Volta.

SECRETARIAT.

Mr. A.H.A. RAZIK  
Assistant Executive Secretary  
and Officer-in-Charge OAU/STRC  
P.M.B. 2359  
Lagos, Nigeria.

Mr. AKADIRI-SOUMAILA K.O.  
International Coordinator  
OAU/STRC JP 31 SAFGRAD  
B.P. 1783 Telex SAFGRAD 5381 UV  
Ouagadougou, Upper Volta.

INTRODUCTORY ADDRESS DELIVERED BY DR. K.O. AKADIRI-SCUMAILA  
INTERNATIONAL COORDINATOR OF OAU/STRC FOR JP. 31 SAFGRAD  
ON THE OCCASION OF THE 2ND OAU/STRC WORKSHOP ON SORGHUM & MILLET  
HELD IN HOLIDAY INN, GABORONE, BOTSWANA FROM 16 - 20 MARCH, 1981.

Honourable Minister,  
Distinguished Delegates and Invited Guests,  
Ladies and Gentlemen,

Before the official opening of this 2nd OAU/STRC Workshop on Sorghum and Millet, may I ask you to observe a minute's silence in memory of the late Mr. Amos ODELOLA, Executive Secretary of OAU/STRC, who died prematurely last year.

Thank you.

Honourable Minister,  
Distinguished Delegates and Invited Guests,  
Ladies and Gentlemen,

1981 is a highly important year for the Joint Project 31 on Semi-Arid Food Grain Research and Development in Africa (SAFGRAD). So far this year, two JP. 31 SAFGRAD Workshops have already been organized under the auspices of the Scientific, Technical and Research Commission of the Organization of African Unity (OAU/STRC). The first one which was held in Dakar, Senegal, last January dealt with farming systems in Africa while the second held last month at the International Institute of Tropical Agriculture (IITA) in Ibadan, Nigeria was on maize and cowpeas. The third one which we are opening today is the 2nd OAU/STRC Workshop on Sorghum and Millet.

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Meeting of the  
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JP.31 SAFGRAD has a very heavy programme. Two more meetings have been planned for this year after the current one. These are first of all the Technical Advisory Committee meeting which will not only evaluate SAFGRAD's research activities but also define major orientations for the Project in view of the Lagos Plan of Action adopted by OAU in favour of agriculture and review the activities of our Accelerated Crop Production Officers (ACPO). This Committee will draw up recommendations which in turn will be submitted to the Consultative Committee for adoption and application. This Consultative Committee will group together all Directors of Agronomic Research in Member States as well as current and potential donors of SAFGRAD.

After this brief, general information, I would like all of us to take an objective and a critical look at SAFGRAD research results.

Indeed, it is almost three years now since JP.31 SAFGRAD got under way to achieve self-sufficiency in food on the continent. To this day, and at this hour that I have the honour to address this august assembly, we are better organized and have promising results as far as maize and cowpeas are concerned. What I find deplorable <sup>S</sup> in the limited awareness of National researchers in Member States concerning on-field SAFGRAD trials.

It was for this reason that Dr. C.M. Pattanayak, ICRISAT's Team Leader in Upper Volta, was unable last year to make all the regional trials on Sorghum and Millet scheduled according to recommendations of the 1st Workshop on Sorghum and Millet held in Mombasa, Kenya. This was mainly due to negligence on the part of certain Member States and to late forwarding of promised seed to SAFGRAD headquarters in Ouagadougou, Upper Volta by some of our participants. We therefore have virtually no results at SAFGRAD for Sorghum and Millet.

.../...

Today, we have the occasion to examine results obtained in Member States last year, ACPO activities and farmer-level impact. We should draw lessons from our past experience and give our research and transfer of technology a more direct and appropriate orientation. In this regard, the Farming Systems Unit (FSU) and ACPO's will be working in unison, the former in selected sample villages representative of given areas and the latter in applying the same techniques at the individual level. Research topics should be treated from a pluridisciplinary angle by a team of homogenous researchers on each variety while laying a lot of stress on local cultivars.

Concerning SAFGRAD Workshops, a reorganization on the following points seems necessary to make them more beneficial:

- a) Objectives of the Workshops: SAFGRAD Workshops are primarily training sessions designed as a forum for professional researchers and renowned institutes or organizations alike to exchange ideas.
- b) Intellectual Leadership for the Workshops: The SAFGRAD contracting agencies - IITA, ICRISAT, Purdue University - should provide the intellectual leadership and direction in terms of the agenda, presentation of materials, and discussion.
- c) Structure of Workshops: The contracting agency should have primary responsibility for the setting of the agenda and submit it to the Coordination Office. Each Workshop should revolve around a principal or keynote address by an internationally recognized authority to define the subject, purposes and objectives of the workshop. If necessary, two keynote address may be planned at the beginning of each session.

- d) Chairmanship of sessions: Chairpersons for the sessions should be well-versed in the area to be discussed for the obvious purposes of facilitating and adding to the discussions as well as keeping the group on the subject, summarizing results and papers at the end of each session. A preliminary private meeting will be held between the Chairman and his principal assistants before each session begins, all in the presence of SAFGRAD officials.
- e) Country reports: These should be brief and precise and limited to new activities which have taken place since the last workshop. The written reports will be distributed in the hall and authors will give an oral synopsis of the more important points which could then be discussed. The important element here is the quality.
- f) Evaluation: Each participant should be also to make a topic-by-topic evaluation and get more guidance through feedback.
- g) Forward planning: A one day analysis session among contractor and SAFGRAD representatives will be held at the close of each workshop to review the successes and failures, participant evaluations and establish the framework for the next workshop and fill gap found in the agenda.

I strongly hope that you will take these points into account to enable us to advance in the organization of our future workshops.

I shall therefore ask representatives of Member States to give us brief reports according to the time allotted on the agenda. We shall then discuss the exposes of eminent researchers among us who will be giving SAFGRAD the benefit of their knowledge.

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Honourable Minister,  
Distinguished Delegates and Invited Guests,  
Ladies and Gentlemen,

I wish you fruitful and fraternal discussions during the workshop. Indeed all the necessary arrangements have been made to enable you to get the most out of this meeting. May I simply remind you that the object of our preoccupation is the African farmer from whom we obtain all and to whom everything should go back improved. Self-sufficiency in food by the year 2000 should not be a myth for our researchers but a reality to which we should push forward with all effort.

Honourable Minister,

May I now ask you to be our spokesman and convey to His Excellency, President Quett Masire and his Government our profound gratitude for permitting us to hold this workshop in the beautiful city of Gaborone and for the facilities put at our disposal. We are extremely grateful to them.

Thank you.

.../...

ADDRESS DELIVERED BY MR. A.H.A. RAZIK  
ASSISTANT EXECUTIVE SECRETARY AND OFFICER-IN-CHARGE OAU/STRC  
ON THE OCCASION OF THE  
2ND OAU/STRC WORKSHOP ON SORGHUM AND MILLET UNDER JP.31 SAFGRAD  
HELD IN GABORONE, BOTSWANA FROM 16 - 20 MARCH, 1981.

Honourable Minister,  
Distinguished Delegates and Observers,  
Ladies and Gentlemen,

It is my great pleasure, on behalf of His Excellency Mr. Edem KODJO, Secretary-General of the OAU, to welcome you all to Gaborone on the occasion of the 2nd OAU/STRC Workshop on Sorghum and Millet under the Joint Project 31 SAFGRAD.

Honourable Minister,

Our meeting today is the third out of a series of five scheduled this year under the auspices of OAU/STRC to review activities carried out under the Semi-Arid Food Grain Research and Development Project (SAFGRAD) and formulate new strategies.

I recall the 1st Workshop held in Mombasa, Kenya, last year and the concrete recommendations drawn up by our eminent scientists to improve the quantity as well the quality of the two cereal crops, namely, sorghum and millet. To what extent were Member States able to implement the recommendations? What were the successes and failures of your trials? What can we do, within OAU's Lagos Plan of Action, to achieve self-sufficiency in sorghum and millet production by the year 2000? This is the challenge before us.

Excellency,  
Ladies and Gentlemen,

If I should once again emphasize the singular importance of self-sufficiency in food crop production, I don't think that it should be before you distinguished scientific people. You are all too well aware of the imbalance in food crop production on the continent. It has been said, and rightly so, that the right

to live is a right to eat. You will however agree with me that on the continental level, Africa's picture is rather too gloomy.

This nagging problem has not left OAU indifferent. Ever since African Heads of State and Government gave SAFGRAD the green light we have left no stone unturned, through joint and cooperative efforts to increase productivity in African agriculture. Indeed, JP 31 SAFGRAD aims at improving the staple cereal and grain legume crops (maize, sorghum, millet, cowpeas, groundnuts etc.) in semi-arid Africa.

Excellency,  
Distinguished Delegates and Observers,

Although the Project currently covers 25 Member States of OAU situated in the median belt from Mauritania in the Atlantic Coast to Somalia on the Indian Ocean Coast and down to Botswana in the Southern part of the Continent, it is the wish of the OAU to expand the project to include other Member States located in the semi-arid region. Resolutions have been adopted at the just ended 36th Ordinary Session of the Council of Ministers of OAU to that effect in Addis Ababa.

The General Secretariat of OAU therefore urges Member States to double their efforts in this project through competent participation in the various technical meetings of the Project and to further give effective support in the needed administrative actions so as to give the Project a truly dynamic orientation. In this connection, may I avail myself of this opportunity to ask Member States to act on the various circular letters issued on the training component of the Project as well as on the posting of Accelerated Crop Production Officers (ACPO).

.../...

Excellency,  
Distinguished Delegates and Observers,

None is ignorant of the fact that meaningful agronomic research is an expensive and time consuming enterprise. It is for this reason that we appeal to all donors and participating Members States alike, to integrate as much as possible, their various national and sub-regional programmes with those of SAFGRAD so that we can achieve the maximum of results through truly concerted action.

Permit me once again to express Africa's profound gratitude to the United States Agency for International Development (USAID) and the French Aid and Cooperation Fund (FAC) for their financial and technical support indispensable to the success of the Project. We sincerely look forward to active collaboration from potential donor agencies such as the German Agency for Technical Cooperation (GTZ) and the Ministry of Overseas Development (ODM). We equally renew our thanks to our contracting institutes like ICRISAT, IITA and PURDUE University for their continued technical support.

In conclusion, may I ask you, Mr. Minister, to kindly convey our deepest appreciation to His Excellency Quett Masire, President of the Republic of Botswana, the Government and People of Botswana for the excellent facilities put at our disposal.

I wish you success in your proceedings.

Long live to the Republic of Botswana!  
Long live International Cooperation!!  
Long live the Organization of African Unity!!!

Thank you.

SPEECH BY THE HONOURABLE W. MESWELE  
MINISTER FOR AGRICULTURE ON THE OCCASION OF  
THE OPENING OF THE SECOND OAU/STRC SAFGRAD WORKSHOP  
ON SORGHUM AND MILLET IN GABORONE, BOTSWANA  
MONDAY MARCH 16TH 1981 AT 9.00 AM.

The Assistant Executive Secretary and Officer-  
in-Charge of OAU/STRC - Mr. A.H.A. Razik,  
The International Coordinator,  
Distinguished Delegates,  
Invited Guests,  
Ladies and Gentlemen,

I am pleased to be here today to formally open the second OAU/STRC SAFGRAD workshop on sorghum and millet, and to welcome scientists from 25 countries in Africa and elsewhere, I extend to you all a formal welcome to Botswana and hope that you will enjoy your stay with us.

The importance of sorghum and millet in Africa and particularly in the semi-arid areas of this continent is immense and it is fitting that Africa is the home of both these crops, which have been of agricultural importance for several thousand years. Although new cereal crops have been introduced in the last 2-3 hundred years, sorghum and millet will continue to play an important part in the feeding of mankind on this continent. This is not only due to the fact that human population is increasing rapidly in Africa, but also because the two crops, sorghum and millet are specially adapted to grow and produce in vast areas of our continent where maize cannot reliably perform well. The areas are the semi-arid regions of Africa to which SAFGRAD has focused its attention.

The SAFGRAD project was adopted by the OAU Council of Ministers at its 27th Ordinary Session in Mauritius in June, 1976 and finalized at a Conference in Ouagadougou in October, 1977.

The first SAFGRAD workshop on sorghum and millet was held in Kenya during February 1980. This second workshop on sorghum and millet is being held to bring together scientists involved with these two crops for discussion and liaison and to define the areas to which attention by research, development and extension workers should be directed.

We are all aware that food production is a vital issue in the world today, and also a political issue. I therefore request you to take your deliberations and discussions this week seriously, so that the procedures for stimulating enhanced food production in the OAU countries will be clearer.

It is opportune that the workshop is being held in Botswana as we are about to launch our Arable Lands Development Programme (ALDEP). ALDEP aims to increase the food production and income of small farmers in this country by encouraging the adoption of improved cultural practices, including of course improved cereal varieties.

The average farm yields of sorghum and millet in Botswana are low, and in most years we have to import cereals to make up the deficit. Our aim is to become self sufficient in cereal production, so our scientists will therefore participate fully in the workshop proceedings, because the challenge ahead of them and you is considerable. As you are all aware the solution to the problem associated with small farm production are not only the provision of improved crop varieties, but the adoption of improved cultural practices which are compatible with small farm semi-arid farming systems. It is therefore important that research scientists, development Personnel and extension workers cooperate fully so that not only are new varieties and practices developed but that they are also made available to the farmers and are acceptable to them. I would also like to mention at this stage the Southern African Development Coordination Conference (SADC) which invited ICRISAT (The International Crops Research Institute for the semi-arid tropics) to Botswana in November 1980 to discuss the establishment of a regional research centre for the Southern Africa countries and increased collaboration with ICRISAT and amongst the member countries. My Government will keep the OAU/STRC informed of any developments in this area.

Whilst you are in Botswana, I hope that you will find time to visit the Agricultural Research Station at Sebele where a collection of sorghum and millet entries are available for your inspection, as well as the other research activities underway on the station.

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As stated earlier the task before us (of increasing food production) is immense and we are all involved. I would like at this stage to acknowledge the help and assistance given to us in this respect by the International Crops Research Institute for the Semi-Aride Tropics (ICRISAT), the International Institute of Tropical Agriculture (IITA) and various Institutes and Universities in the USA for provision of germplasm, training and consultants.

I also acknowledge the roles played by donors, missions and Governments, within and outside Africa, that are providing us with both financial assistance and expertise.

In conclusion, I wish you all the best in your forthcoming deliberations, trust that a substantial amount will be achieved during your workshop, extend again to you a warm welcome to Botswana, and have the honour to declare the Second OAU/STRC SAFGRAD Workshop on Sorghum and Millet here in Gaborone Officially open.

STRC - Scientific, Technical and Research Commission.

SAFGRAD - Semi-Arid Food Grain Research and Development.

LISTE DES COMMUNICATIONS SCIENTIFIQUES/LIST OF SCIENTIFIC PAPERS

	PAYS/COUNTRY	TITRE/TITLE	PRESENTE PAR PRESENTED BY	LANGUE D'ORIGINE/ ORIGINAL LANGUAGE
SG/SM/1	Haute-Volta	Deuxième Atelier OUA/CSTR sur le Sorgho et le Mil	SEDOGO Michel, Ing. Agronome ZANGRE G. Roger Ing. Agronome	Français/ French
SG/SM/2	Bénin	Le point sur la produc- tion et la recherche du Sorgho et du Mil en Rép. Pop. du BENIN	ADOMOU Moustapha Directeur de la Station de Rech.	Français/ French
SG/SM/3	CRDI	Sélection distructive saisonnière et sélec- tion multilocale : Quelques résultats.	Marcel GALIBA Ingénieur de Rech. I.S.R.	Français/ French
SG/SM/4	ICRISAT Haute-Volta	La recherche pour la résistance aux princi- pales maladies du Mil.	J.A. FROWD & P. SEREME	Français/ French.
SG/SM/5	Sénégal	Situation des rech. sur le mil au Sénégal.	Aminata Thiam N'DOYE	Français/ French
SG/SM/6	Botswana	Status of cereals Crops Research Botswana	L.M. MAZHANI Cereals Agronomist	English/ Anglais.
SG/SM/7	ICRISAT Upper-Volta	The role of Hostplant Resistance in integrated Pest management techno- logy and its relevance to pests of pearl millet in the West African Sahel	Kanayo F. NWANZE	English/ Anglais.
SG/SM/8	ICRISAT Upper-Volta	Team Leader/Sorghum Breeder. ICRISAT Coope- rative Program.	Dr. C.M. PATTANAYAK	English/ Anglais.
SG/SM/9	Gambia	Research on Sorghum & Millet in the Gambia	Albert COX & Tom SENGHORE (Agronomist)	English/ Anglais
SG/SM/10	Mali	Programme de sélec- tion des Mils/Sorgho au Mali.	Minamba BAKAYOKO	Français/ French.
SG/SM/11	Nigeria	Millet Improvement & Production in Nigeria	C.C. NWOSIKE & P.N. EGHAREVBA	English/ Anglais.

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SG/SM/12	ETHIOPIA	Status of Sorghum in Ethiopia in 1980	Brhane GEBREKIDAN Leader.	English/ Anglais
SG/SM/13	IAR ZARIA NIGERIA.	The prospects of breeding for insect resistance in Sorghum in Tropical Africa.	A.A. ADESUYUN (Sorghum Entomologist)	English/ Anglais
SG/SM/14	GUINEE-BISSAU	Deuxième Atelier OUA/CSTR sur le Sorgho et le Mil.	Antonio Alcala Z. BARBOSA	Français/ French
SG/SM/15	ICRISAT UPPER-VOLTA	Striga Program in Africa	K.V. RAMAIAH	English/ Anglais.
SG/SM/16	NIGERIA	Socio-economic aspects of Sorghum & Millet Production in NIGERIA	R. ADEGBOYE	English/ Anglais
SG/SM/17	IAR ZARIA NIGERIA	The Prospects of breeding for insect resistance in Sorghum in Tropical Africa.	A.A. ADESUYUN	English/ Anglais
SG/SM/18	CAMEROON	Sorghum & Millet Regional Trials in Northern Cameroon 1980 Season	C.O. GWATHMEY & M. FOBASSO	English/ Anglais
SG/SM/19	ETHIOPIA	Status of Sorghum Research in Ethiopia in 1980.	Brhane GEBREKIDAN Leader.	English/ Anglais
SG/SM/20	NIGERIA	Breeding & Improvement Status of Sorghum in NIGERIA	A. Tunde GBILANA	English/ Anglais
SG/SM/21	ICRISAT	A summary paper presented at the OAU/STRC/SAFGRAD Workshop on Sorghum & Millet.	Melak H. MENGESHA	English/ Anglais

FINAL REPORT.

I. INTRODUCTION-OPENING CEREMONY.

1. The second OAU/STRC JP 31 SAFGRAD workshop on Sorghum and Millet was held from 16 to 20 March 1981 at the Holiday Inn, Gaborone, Botswana.
2. The opening ceremony was chaired by the Honourable W. MESWELE, Botswana's Minister of Agriculture. Mr. A.H. Abdel Razik, Assistant Executive Secretary and Officer-in-Charge of OAU/STRC was present.
3. Delegates from 13 JP 31 SAFGRAD member countries and one observer country (Zimbabwe) as well as representatives from international cooperating and collaborating organizations such as AAASA, IDRC, FAO, GTZ, INTSORMIL, IRAT, ICRISAT, CILSS and USAID (donor agency) attended the meeting. The following member countries were absent : Guinea, Kenya, Ivory Coast, Mauritania, Cape Verde, Sierra Leone, Ghana, Chad, Tanzania, Zambia, Somalia and Central African Republic.
4. The inaugural ceremony began with an introductory address by Dr. K.G. Akadiri-Soumaila, OAU/STRC International Coordinator for JP 31 SAFGRAD. After emphasizing the fact that recommendations drawn up and adopted by the 1st workshop on sorghum and millet had not been implemented, he gave a brief outline of SAFGRAD's sorghum and millet programme and proposed to participants 7 guiding principles to improve and make the workshops more efficient.
5. The Assistant Executive Secretary of OAU/STRC Mr. A.H. Abdel Razik who is also the Officer-in-Charge of the OAU/STRC Secretariat then took the floor to thank the Botswana authorities for hosting the workshop and for the warm welcome given to participants. On behalf of OAU, for which JP 31 SAFGRAD is the only continental project of its kind, he appealed to participants to help achieve self-sufficiency in food in Africa. He informed participants of the desire of certain countries to be covered by SAFGRAD. Mr Abdel Razik <sup>further</sup> distributed copies of the resolution adopted by the OAU Council of Ministers at its Thirty-Sixth Ordinary

Session in Addis-Ababa, Ethiopia, (CM/CTTEE B/RES.9 (XXX VI) Ren. 1) in respect of SAFGRAD to participants. (See Annexe).

6. The opening address was delivered by the Botswana Minister of Agriculture. He stressed his country's lack of material means and agricultural research officials as well as the considerable cereal deficit with which Botswana has to cope with each year. He declared that Botswana fully subscribes to the objectives of SAFGRAD which is a project of the OAU.

7. After a few minutes of break, participants made some changes in the provisional agenda and adopted it before electing the following officers for the workshop :

#### OFFICERS

##### CHAIRMAN

Dr. T.L. MOLEFE  
Senior Research Plant Pathologist  
Department of Agricultural Research  
Ministry of Agriculture  
(BOTSWANA).

##### 1st VICE CHAIRMAN.

Mr. Mahamat CHEGADOR  
(CAMEROON)

##### 2nd VICE CHAIRMAN.

Mr. Joseph NYIKA MUSHOMGA  
(ZIMBABWE)

##### RAPPORTEUR.

Professor Rufus ADEGBOYE  
of Ibadan University  
Secretary General AAASA

#### II. PROCEEDINGS.

##### SESSION I. Progress of research on sorghum and millet in Member States.

Chairman: Dr. MENGESHA

Rapporteur : Mr. ADOMOU

##### SESSION II (continuation of Session I)

Chairman : Prof. ADEGBOYE

Rapporteur : Mr. DIATTA.

These two Sessions were devoted to national reports from Member States. Delegates gave account of their national agronomic activities and submitted highlights of their programmes, problems found and solutions applied (with or without success) to the meeting.

SESSION III. Impact of host plant resistance in an integrated pest management programme.

- Chairman : Dr. OBILANA  
Rapporteur : Dr. McFARLANE.
- A) Sorghum. Speaker : Dr. ADESUYUN  
Discussant : Dr. RAO.  
General discussion
- B1) Millet. Speaker : Dr. NWANZE  
B2) Sorghum and Millet Striga ( Dr. RAMAIAH) by Mr. ZANGRE.  
Discussant : Dr. SINGH  
General discussion.

This type of discussions was a great change in the proceedings of the second workshop on sorghum and millet. It enabled renowned specialists to present important working documents for the benefit of participants. This led to high level scientific discussions which were profitable to all. Sorghum and Millet entomology was stressed at this session.

SESSION IV. Sorghum and Millet breeding for disease resistance.

- Chairman : Dr. EGHAREVBA  
Rapporteur : Mr. SEDOGO
- A1) Sorghum. Speaker : Dr. GEBREKIDAN  
A2) Sorghum. Speaker : Dr. PATTANAYAK  
Discussant : Dr. Abdel Latif Nour.  
General discussion.
- B1) Millet. Speaker : Mr. SEREME  
B2) Millet. Speaker : Dr. NWOSIKE  
Discussant : Mrs. N'DOYE.  
General discussion.

The session dealt with problems of plant pathology (sorghum and millet) from the point of view of diseases and with a view to finding disease resistant varieties.

SESSION V. Sorghum and millet breeding for drought resistance.

Chairman :	Dr. GEBREKIDAN
Rapporteur :	Dr. SINGH
A1) Sorghum. Speaker :	Dr. EASTINE
A2) Sorghum. Speaker :	Dr. OBILANA.

Specialists spoke about the importance of drought in semi-arid areas : in a context of breeding for better varieties.

Collection methods for local varieties and cultivars.

Speaker : Dr. MENGESHA.

Dr. Mengesha, a renowned scientist based at ICRISAT Centre in Hyderabad briefly presented to participants a summary description of world collections of germplasm currently available.

Prof. Adegboye of the University of Ibadan spoke during this session on the "Socio-economic aspects of sorghum and millet production in Nigeria". He presented a paper of which he is the author on this subject.

SESSION VI. Elaboration of the 1981-1985 regional trials programme.

Constitution of 2 groups :

a)	Sorghum :	Chairman :	Dr. RAO
		Rapporteur :	Dr. Abdel Latif Nour.
b)	Millet :	Chairman :	Dr. NWOSIKE
		Rapporteur :	Dr. SINGH

The two groups discussed ways and means of launching a global and efficient sorghum and millet strategy over the next five years.

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SESSION VII. Visit to Sebele Research Station.  
Continuation of proceedings of 2 groups  
Drafting Committee.

Participants visited the Sebele Research Station some ten Kilometres away from Gaborone. Among other things, they saw matured sorghum and millet varieties, trials of SAFGRAD varieties, milden-infected plots and an extension unit for light agricultural mechanization. The two groups continued their proceedings in the afternoon.

The following Drafting Committee prepared the final report :

- |                    |                           |
|--------------------|---------------------------|
| 1. Dr. MOLEFE      | 7. Dr. NWOSIKE            |
| 2. Prof. ADEGBOYE  | 8. Mr. GALIBA             |
| 3. Dr. GEORGEKIDAN | 9. Mrs. N'DOYE            |
| 4. Dr. PATTANAYAK  | 10. Dr. ADESUNYUN         |
| 5. Dr. RAO         | 11. Mr. SEDOGO            |
| 6. Dr. OBILANA     | 12. Dr. EGHAREVBA         |
|                    | 13. Dr. AKADIRI-SOUMAILA. |

SESSION VIII. Presentation of Final Report.  
Closure.

After adoption of the recommendations (see following pages) which brought OAU/STRC JP 31 SAFGRAD's second workshop on sorghum and millet to a close, participants departed, satisfied with their work.

RECOMMENDATIONS.

VOTE OF THANKS TO THE HOST GOVERNMENT.

The OAU/STRC JP 31 SAFGRAD Second Sorghum and Millet wishes to express its sincere thanks to the Government of Botswana, the Ministry of Agriculture, and to the people of Botswana for the excellent facilities provided for the meeting at Gaborone, and for the hospitality and friendliness shown to participants.

VOTE OF THANKS TO THE DONOR AGENCIES.

The workshop also wishes to express its gratitude to the Donor agencies which have supported the SAFGRAD project, particularly the United States Agency for International Development and the French Fund for Cooperation.

VOTE OF THANKS TO OAU.

The workshop notes with great pleasure the endorsement the OAU, at its 36th Ordinary Session of the Council of Ministers held in Addis-Ababa, February 23 March, 1981, gave to the work to continue, expand and reach other OAU Member States not now fully being covered. The workshop will appreciate more and fuller support in the future.

COLLABORATION WITH OTHER ORGANIZATIONS.

The workshop, noting the activities and programs of the different national, (IAR-ABU, University of Ibadan) sub-regional (C.I.L.S.S.), regional (SAFGRAD) and International Organizations such as ICRISAT, INTSORMIL etc., working on sorghum and millet improvement, recommend

1. that agreed research programs be mutually supportive and complementary and the cooperation between SAFGRAD and these organizations be expanded and intensified.

2. - Well defined objectives for research and production programmes ;
3. - Regional Sorghum and Millet trials in the respective ecological zones ;
4. - Regional genotype x Fertilizers x population study in interested States ;
5. - That seed material for regional trials be obtained from the States concerned and other international agencies which promised to send seeds to Ouagadougou before April 10, 1981 ;
6. - That the state cooperators be responsible for regional trials at identified states in respective member countries ;
7. - That an appropriate format be developed for future annual country reports ;
8. - That facilities for germplasm availability to national programmes be developed in collaboration with ICRISAT, IBPGR, etc.;
9. - That cooperative efforts on regional basis be fostered, national research programmes strengthened and training facilities at various levels promoted;
10. - That invitations to SAFGRAD workshops be sent well in advance to member countries with direct intimation to relevant research workers ;
11. - That in future participants be advised to bring 3-5 kg. of seeds of each entry for regional trials and attempts also be made to create a central seed multiplication facility at a suitable location ;
12. - That SAFGRAD programme be extended to Eastern and Southern African regions and that SAFGRAD employ African research scientists ;
13. - In order to effect a better coordination of research activities in member countries that the position of director of research be created ;

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inter and



14. - That a suitable research strategy for the improvement of Sorghum and Millet for the 1982-1985 period be developed to meet the needs of member states and be discussed at the next meeting ;
15. - That a Pan African approach on control of birds be intensified and encouraged ;
16. - That effective documentation of the workshops and other findings be properly done either by way of special SAFGRAD Bulletins or publications;
17. - That the facilities available in some African Universities and institutes be utilized in the training of potential staff of member countries and SAFGRAD ;
18. - That nitrogen fixing lines be initiated and encouraged ;
19. - That recommendations made at workshops be reviewed at the following ones as a means of evaluating progress or shortcomings of SAFGRAD ;
20. - That quarantine regulations be slightly relaxed, whenever possible for the mobilization of germplasm.

1981

# SECOND WORKSHOP ON SORGHUM AND MILLET ORGANIZED BY THE SCIENTIFIC, TECHNICAL AND RESEARCH COMMISSION OF THE ORGANIZATION OF AFRICAN UNITY (OAU/STRC) UNDER JP 31 SAFGRAD

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